

Shenzhen Daxie Technology Co Ltd

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Smart MPPT-MB series

Model	MB20415F	MB30415F
System voltage	12/24/36/48VDC or Auto-recognize	
Operating voltage range of controller	11~64V	
Lead Acid Batteries Type	Maintenance-free (default) lead acid battery, GEL battery, open lead acid battery, custom	
Lithium Battery Type	Lithium iron phosphate / lithium ternary / custom	
Nominal current	20A	30A
Solar panel rated input power	260W/12V 520W/24 780W/36V 1040W/48V	390W/12 780W/24V 1170W/36V 1560W/48V
PV input maximum open circuit voltage (VOC)	150VDC (At minimum temperature) 138V DC (At 25 °C)	
Maximum power point operating voltage range	12V	20~150VDC
	24V	36~150VDC
	36V	48~150VDC
	48V	64~150VDC
Tracking efficiency	≥99.5%	
Maximum conversion efficiency	97.50%	
Temperature compensation coefficient	-3mV/°C/2V	
Static loss	200mA/12V; 100mA/24V; 50mA/48V;	
DC load output voltage	only 12/24V can use	
Rated output current of DC load	20A	
DC load output control mode	Normally open or normally closed mode	
Protections	PV input anti reverse connection protection, Battery input reverse connection protection, Battery overcharge protection, Battery undervoltage protection, Battery over temperature protection and Machine over temperature protection	
Heat dissipation mode	Air cooling	
Communication	RS485	
LCD backlight time	The default is 60s, and the backlight mode can be set	
Environmental parameters		
Working temperature	-20°C ~ +50°C	
Storage temperature	-40°C ~ +70°C	
Humidity	0~90%RH	
Other Data		
Model	20415F	30415F
Dimension	210*150*80mm	210*150*80mm
Recommended cable	11AWG/4mm ²	9AWG/6mm ²
N.W	1.4kg	1.45Kg